

Appn No. 10/728,971
Amtd. Dated October 14, 2004
Response to Office action of September 17, 2004

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A printhead that comprises
an elongate substrate that defines a plurality of groups of ink supply channels, each group being in fluid communication with a respective ink of a predetermined color and extending along a length of the substrate along a plurality of substantially parallel paths; and
a plurality of nozzle arrangements that are positioned on the substrate, each nozzle arrangement comprising
a nozzle chamber structure that is positioned on the substrate to define a nozzle chamber in fluid communication with an ink supply channel and an ink ejection port in fluid communication with the nozzle chamber; and
a micro-electromechanical ink ejection mechanism that is positioned on the substrate operatively with respect to the nozzle chamber to eject ink from the ink ejection port, the micro-electromechanical ink ejection mechanism of each nozzle arrangement including an elongate actuator arm that is fixed at one end to the substrate and has an ink ejection member positioned on an opposite end and in a respective nozzle chamber;
wherein said nozzle arrangements are positioned so that the actuator arms of the nozzle arrangements are oriented at an acute angle with respect to a print medium feed direction.
2. (Original) A printhead as claimed in claim 1, in which the substrate defines two rows of ink supply channels for each group of ink supply channels.
3. (Original) A printhead as claimed in claim 2, in which the nozzle arrangements are oriented so that a predetermined number of nozzle chamber structures are provided for each ink supply channel, said predetermined number of nozzle arrangements being positioned so that each group of ink supply channels corresponds with two rows of nozzle chamber structures.
4. (Currently amended) A printhead as claimed in claim 3, in which the ~~micro-electromechanical ink ejection mechanism of each nozzle arrangement includes an elongate actuator arm that is fixed at one end to the substrate and has an ink ejection member positioned on an opposite end and in a respective nozzle chamber, the~~ nozzle arrangements ~~being~~ are oriented so that the nozzle chamber structures of each pair of rows are adjacent each other, with the actuator arms of each row of nozzle arrangements being in a side-by-side orientation, such that the nozzle arrangements define three spaced pairs of rows of nozzle chamber structures corresponding to respective inks.
5. (Cancelled)

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6. (Currently amended) A printhead as claimed in claim 51, in which each actuator arm of an intermediate pair of rows of nozzle arrangements are interposed between consecutive actuator arms of one of each outer pair of rows of nozzle arrangements.

7. (Original) A printhead as claimed in claim 1, in which each ink supply channel is in fluid communication with ten nozzle chamber structures.

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